

SUB A' 1

a step of causing, if said plurality of communication  
terminal devices are capable of controlling the same call through  
communication lines corresponding thereto, a line control unit

of said centralized management communication terminal device  
to notify of a state of the call [a specified communication terminal  
device] among said plurality of communication terminal devices  
and to acknowledge the control by said [specified communication  
5 terminal device] so that only said [specified communication  
terminal device] as a control-acknowledged terminal device  
processes the same call on the basis of condition data; and

a step of causing a distributed control module of the  
[specified communication terminal device] to avoid a conflict about  
10 the same call between said plurality of communication terminal  
devices that utilize the communication lines.

3. A communication line control method according to claim  
1 or 2, further comprising:

15 a step of notifying said line control unit of a change  
in state by an indication given from said distributed control  
module with respect to the call of which said line control unit  
notifies said distributed control module;

a step of changing the condition data about the call control  
20 in said line control unit; and

a step of changing a control target condition and a  
notifying target condition with respect to the plurality of  
calls.

25 4. A communication line control method comprising:

a step of providing a plurality of communication terminal  
devices each incorporating communication functions containing

voice communications and data communications, accommodating a plurality of communication lines connected to a network, and capable of controlling an arbitrary call;

5 a step of causing, if said plurality of communication terminal devices forming a plurality of groups and when a control request with respect to a specified call is made on an [arbitrary communication terminal device]<sup>101</sup> within one group or when a state of the call changes, a line control unit<sup>1012</sup> of said [arbitrary communication terminal device] to give broadcasting notifications of a change in control reservation state with respect to the specified call to said line control units<sup>1012</sup> of said plurality of communication terminal devices within other groups;

10 a step of causing said line control unit<sup>1012</sup> of said [arbitrary communication terminal device], after receiving acknowledgements about the control reservation state from said line control units<sup>1012</sup>, having received the broadcasting notifications, of said communication terminal devices within other groups, to give a right of control of the call to a distributed control module<sup>1013</sup> of said [arbitrary communication terminal device]<sup>1013</sup> that utilizes the communication lines; and

20 a step of causing said distributed control module<sup>1013</sup> of said [arbitrary communication terminal device]<sup>101</sup> to execute exclusive control between said communication terminal devices within other groups by unifying the states about the specified call between said communication terminal devices of other groups without being aware of the communication lines.

5. A communication line control method comprising:

a step of providing a plurality of communication terminal<sup>101</sup> devices each incorporating communication functions containing voice communications and data communications, accommodating a plurality of communication lines<sup>102</sup> connected to a network, and capable of controlling an arbitrary call;

a step of setting one [arbitrary communication terminal device as a centralized management communication terminal device] of which a line control unit<sup>102</sup> manages in centralization said other communication terminal devices;

a step of allocating, when controlling a specified call by said other communication terminal devices [a right of control to said other communication terminal devices by said centralized management communication terminal device] on the basis of preset condition data; and

a step of causing a distributed<sup>1013</sup> control module of said [arbitrary communication terminal device] to execute exclusive control between said other communication terminal devices that utilize the communication by unifying the states about the specified call between said other communication terminal devices without being aware of the communication lines.

6. A communication line control method according to claim 4 or 5, further comprising:

a step of monitoring a processing load within the self communication terminal device<sup>101</sup> and a load on the communication line<sup>102</sup> in said line control unit<sup>1012</sup> of each of said communication

terminal devices or in said line control unit of said centralized management communication terminal device; and

a step of managing a plurality of calls by switching over a mode of the line control in said line control unit of each of said communication terminal devices or in said line control unit of said centralized management communication terminal device on the basis of the condition data preset corresponding to a state of this load.

10 7.<sup>10,12</sup> A communication line control method comprising:

a step of providing a plurality of communication terminal devices each incorporating communication functions containing voice communications and data communications, and accommodating a plurality of communication lines connected to a network;

15 a step of notifying, if there occurs a change in state of one [arbitrary communication terminal device] of this state said line control unit of said other communication terminal device from an interface of said one arbitrary communication terminal device that has a function of operating with an independent power supply;

20 a step of updating a condition table in said line control unit of said other communication terminal device; and

a step of executing the line control related to said communication terminal device exhibiting the change in state.

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8. A communication line control system comprising:

a communication terminal device incorporating

said communication terminal device including:

a plurality of calls that should be simultaneously processed on a plurality of communication lines connected to a network, [a specified call as a control target call among the plurality of calls on the basis of preset condition data;] and

a distributed<sup>1013</sup> control module for processing only the specified call determined by said line control unit without being aware of the plurality of communication<sup>CL</sup> lines.

→ 9. A communication line control system comprising:

a plurality of communication terminal devices each incorporating communication functions containing voice communications and data communications, and accommodating a plurality of communication lines connected to a network; and

a centralized management communication terminal device including a line control unit for determining, if said plurality of communication terminal devices are capable of controlling the same call through corresponding communication lines, a specified communication terminal device as a control-assigned terminal device among said plurality of communication terminal devices with respect to the same call on the basis of preset

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a plurality of communication terminal devices each

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said distributed control module thus executes exclusive control between said communication terminal devices within other groups.

11. A communication line control system comprising:

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12. A communication line control system comprising:

a plurality of communication terminal devices each



incorporating communication functions containing voice communications and data communications, and accommodating a plurality of communication lines connected to a network;

wherein if there occurs a change in state of one arbitrary communication terminal device, an interface of said one arbitrary communication terminal device that has a function of operating with an independent power supply gives a notification of a state to line control units of said other communication terminal devices,

condition tables are updated in said line control units of said other communication terminal devices, and

the line related to said communication terminal device exhibiting a change in state is controlled.

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